

Results for the 12'x40' circular tank with ramp:

Circular tank:

Tank Diameter = 40 ft

Tank Wall thickness = 8 in (actual)

Tank Height = 12 ft

$f_y = 60,000$ psi

$f'_c = 4,000$ psi

Horizontal Steel = #4 rebar		
Bar #	Spacing (in)	Distance from finished floor (ft - in)
1	3	0' 3"
2	12	1' 3"
3	12	2' 3"
4	10	3' 1"
5	10	3' 11"
6	10	4' 9"
7	10	5' 7"
8	10	6' 5"
9	10	7' 3"
10	12	8' 3"
11	12	9' 3"
12	12	10' 3"
13	12	11' 3"
14	6	11' 9"

Vertical Steel shall be #4 @ 12" O.C.

Dowels "L" bars shall be #4 @ 12" O.C. with a horizontal leg of 6" and a vertical leg of 26"


For a length of 60 feet, centered on the ramp, substitute #5 rebar for the #4 horizontal rebar for bars #5 to bar #9 in the tank (5 bars total).

In the tank wall, at the notch for the ramp add:

3-#6 bars x 11'-10" long @ 4" O.C. vertically.

3-#6 bars x 20' long @ 4" O.C. horizontally.

4-#6 bars x 6' long @ 4" O.C. at a 45 degree angle.

 Natural Resources Conservation Services United States Department of Agriculture	_____ County, PA ROUND TANK W/RAMP DETAIL Page 6.19	Designed <u>PA NRCS</u> <u>12/01</u>
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